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CERN-SL-98-002

AP

CLIC Note 349

Mustafa Environment Description and Users' Guide with
Applications to CLIC

Guignard, G.; Hagel, J.*

Presented at :

CERN-SL-98-003

CO

CERN-PS-98- 003 (CO)

Comparative Analysis of the CERN Accelerator Control Systems

Watson, C.

Presented at :

CERN-SL-98-004

AP

CERN-EP/98-03
CERN-TH/98-33

Options for Future Colliders at CERN

Ellis, J. ;Keil, E.;Rolandi , G.

Presented at :

CERN-SL-98-005

DI

On LEP Performance Limits in 1999 and 2000

Brandt, D.; Hubner, K.; Myers, S.

Presented at :

CERN-SL-98-006	DI	Proceedings of the Eighth LEP Performance Workshop CHAMONIX, January 27-30, 1998
edited by Poole, J		<i>Presented at :</i>
CERN-SL-98-007	CO	Recommendations for the Use of Programmable Logic Controllers (PLCs) at CERN
CERN-EP-071 (EOS) CERN-LHC-98-001 (IAS)		<i>Presented at :</i>
Blanc, D.; Brahy, D.; Heinze, W.; Maugain, J.M.; Rausch, R.; Van der Vossen, O.; Waeffler, S.		
CERN-SL-98-008	RF	The Higher-Order Mode Dampers of the 400 MHz Superconducting LHC Cavities
Haebel, E.; Rödel, V.; Gerigk, F.; Zhao, Z.T.		<i>Presented at : Eighth Workshop on RF Superconductivity, Abano Terme (Padova), Italy, 6-10 October 1997</i>
CERN-SL-98-009	RF	First Experience with in situ Helium Processing of the LEP Superconducting Modules
Brunner, O.; Butterworth, A.; Cavallari, G.; Hilleret, N.; Jimenez, J.; Tückmantel, J.		<i>Presented at : Eighth Workshop on RF Superconductivity, Abano Terme (Padova), Italy, 6-10 October 1997</i>
CERN-SL-98-010	RF	Beam Related Thermal Losses on the Cryogenic and Vacuum Systems of LEP
Cavallari, G.; Gayet, Ph.; Geschonke, G.; Kaiser, D.; Jimenez, J.M.		<i>Presented at : Eighth Workshop on RF Superconductivity, Abano Terme (Padova), Italy, 6-10 October 1997</i>

CERN-SL-98-011**DI**

LEP 2000 Status Report

LEP 2000 Working Group

*Presented at : Editor G. Cavallari***CERN-SL-98-012****CERN-EP/98-40**

Calibration of center of mass energies at LEP1 for precise measurements of Z properties

LEP Energy Working Group

*Presented at :***CERN-SL-98-013****BI**Interaction Region Diagnostics in e⁺e⁻ Ring Colliders

Placidi, M.; Wenninger, J.

*Presented at : ICFA Workshop on Beam Dynamics Issues for e⁺e⁻ Factories,
Frascati Italy, 20-25 October 1997***CERN-SL-98-014****AP**

Analysis of generic insertions made of two symmetric triplets.

d'Amico, E.T.; Guignard, G.

*Presented at :***CERN-SL-98-015****AP**

Analytical Treatment of Single Bunch Transverse Dynamics in Linacs with Wakefields

Guignard, G.; Hagel, J.

Presented at :

CERN-SL-98-016**MS**

The influence of preparation methodology on high voltage behaviour of alumina insulators in vacuum

Goddard,B;Hopman,H.J.;Tan, J.

*Presented at : XVIIIth International Symposium on Discharges and Electrical Insulation in Vacuum, Eindhoven, The Netherlands, August 17-21 1998***CERN-SL-98-017****BT**

Fast Pulsed Magnet Systems

Schröder,G.

*Presented at : Contribution to Handbook of Accelerator Physics and Engineering Editors: A. Chao and M. Tigner***CERN-SL-98-018****AP**

Transverse coupled-bunch instabilities for non-symmetric bunch fillings

Meincke,O.

*Presented at :***CERN-SL-98-019****AP**

The Impedance of Laminated Vacuum Chambers

Keil,E.;Zotter,B.

*Presented at :***CERN-SL-98-020****AP**

Experimental Insertions made of two symmetric triplets

D'Amico,E.T.;Guignard,G.

Presented at : EPAC'98 Conference, Stockholm, June 1998

CERN-SL-98-021**AP**

The impedance of layered vacuum chambers

Keil, E.; Zotter, B.

*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-022****AP**

What did we learn from the extraction experiments with bent crystals at the CERN SPS

Elsener, K.; Fidecaro, G.; Gyr, M.; Herr, W.;
Klem, J.; Mikkelsen, U.; Weisse, E.*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-023****RF**

The Quadrupole Resonator: Design Considerations and Layout of a New Instrument for the RF Characterization of Superconducting Surface Samples

Brigant, E.; Haebel, E.; Mahner, E.

*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-024****RF**

Measurement of the Effect on Single Bunch Stability of Changing Transition Energy in the CERN SPS

Bohl, T.; Lamont, M.; Linnecar, T.;
Scandale, W.; Shaposhnikova, E.*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-025****RF**

The Quadrupole Resonator: Construction, RF System, Field Calculations and First Applications

Chiaveri, E.; Haebel, E.; Mahner, E. ;
Tessier, J.M.*Presented at : EPAC'98 Conference, Stockholm, June 1998*

CERN-SL-98-026	RF	Study of Different Operating Modes of the 4th RF Harmonic Landau Damping System in the CERN SPS
Bohl, T.; Linnecar, T.; Shaposhnikova, E.; Tückmantel, J.		<i>Presented at : EPAC'98 Conference, Stockholm, June 1998</i>
CERN-SL-98-027	RF	SPS Beams for LHC: RF Beam Control to Minimize Rephasing in the SPS
Baudrengnien, P.; Linnecar, T.; Stellfeld, D.; Wehrle, U.		<i>Presented at : EPAC'98 Conference, Stockholm, June 1998</i>
CERN-SL-98-028	AP	Electro-Magnetic Bunch Length Measurement in LEP
Vos, L.		<i>Presented at : EPAC'98 Conference, Stockholm, June 1998</i>
CERN-SL-98-029	AP	Beam Dynamic at LEP
Jowett, J.M.		<i>Presented at : Invited talk at the Advanced ICFA Beam Dynamics Workshop , Frascati, 20-25 October 1997</i>
CERN-SL-98-030	AP	A Candidate Low Emittance Lattice for LEP at its Highest Energies
Brandt, D.; Herr, W.; Jowett, J.M.; Lamont, M.; Meddahi, M.; Verdier, A.		<i>Presented at : EPAC'98 Conference, Stockholm, June 1998</i>

CERN-SL-98-031**AP**

Vertical beam size, non-closure and LEP performance

Goddard, B.; Herr, W.; Lamont, M.

*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-032****AP**

A Review of New Manifestations of Collective Effects

Ruggiero, F.

*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-033****EA**

The Simultaneous Long- and Short-Lived Neutral Kaon beams for Experiment NA48

NA48 Note 98-16

C. Biino 1), N. Doble 2), L. Gatignon 2),
P. Grafström 2) and H. Wahl 3)*Presented at : *)Cagliari-Cambridge-CERN-Dubna-Edinburgh-Ferrara-Florence-Mainz-Orsay-Perugia-Pisa-Saclay-Siegen-Torino-Vienna-Warsaw Collaboration.***CERN-SL-98-034****BI**

Recent Results on Energy Calibration at LEP

M. Böge, PSI, Villigen, Switzerland
P. Renton, E. Bravin, B. Dehning, M. Hildreth,
G. Mugnai, M. Placidi, F. Sonnemann,
F. Tecker, J. Uythoven, P. Wells,
J. Wenninger, G. Wilkinson, CERN, Geneva,
Switzerland*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-035****BI**

Energy calibration at LEP using Nuclear Magnetic Resonance probes

Bravin, E.; Dehning, B.; Mugnai, G.

Presented at : EPAC'98 Conference, Stockholm, June 1998

CERN-SL-98-036**BI**

Model of Dipole Field Variations in the LEP Bending Magnets

Bravin, E.; Dehning, B.; Drees, A.; Mugnai, G.

*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-037****BI**

First Results from Betatron Matching Monitors installed in the CERN PSB and SPS

C. Bovet, R. Colchester, C. Dutriat, G. Ferioli,
J.J. Gras, R. Jung, P. Knaus, U. Raich,
J.M. Vouillot*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-038****BI**Dynamic Beam based Calibration
of Beam Position MonitorsB. Dehning, G.-P. Ferri, P. Galbraith,
G. Mugnai, M. Placidi, F. Sonnemann,
F. Tecker, J. Wenninger*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-039****BI**

The Q-Loop: A Function driven Feedback System for the Betatron Tunes during the LEP Energy Ramp

O. Berrig, M. Jonker, K.D. Lohmann,
G. Morpurgo*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-040****BI**

Real-Time Monitoring of Beam-Beam Modes at LEP

O. Berrig, K.D. Lohmann, G. Morpurgo,
H. Schmickler*Presented at : EPAC'98 Conference, Stockholm, June 1998*

CERN-SL-98-041**EA**The Simultaneous and Nearly-Collinear
K0 Beams for Experiment NA48C.Biino , N.Doble, L.Gatignon , P.Grafström,
H.Wahl*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-042****N° ANNULE, voir SL-Note 98-061 (OP)
ou CERN-THESIS 98-017***Presented at :***CERN-SL-98-043****DI**

LEP2 Present and Future Performance and Limitations

Hubner,K.

*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-044****DI**

The Effects of LHC Civil Engineering on the SPS and LEP Machines

B. Goddard, N. Hilleret, M. Placidi, J. Poole,
J.P. Quesnel, H. Rammer, G. de Rijk, G. Roy,
A. Verdier*Presented at : EPAC'98 Conference, Stockholm, June 1998***CERN-SL-98-045****BI**The Bom 1000 Turn Display : A Tool to Visualize
the Transverse Phase-Space Topology at LEP

Morpurgo, G.

Presented at : EPAC'98 Conference, Stockholm, June 1998

CERN-SL-98-046**OP**

Synchrotron Radiation Effects at LEP

R. Bailey, B. Balhan, C. Bovet, B. Goddard,
N. Hilleret, J.M. Jimenez, R. Jung, M. Placidi,
M. Tavlet, G. von Holtey

Presented at : EPAC'98 Conference, Stockholm, June 1998

CERN-SL-98-047**OP**

LEP Performance at 91.5 GeV

G. Arduini, R. Bailey, H. Burkhardt, P. Collier,
K. Cornelis, A. Faugier, M. Jonker, M. Lamont,
G. Morpurgo, G. Roy, J. Uythoven,
J. Wenninger

Presented at : EPAC'98 Conference, Stockholm, June 1998

CERN-SL-98-048**OP**

Measurements of Coherent Damping and Tune Shifts with Amplitude at LEP

Müller, A.S.; Wenninger, J.

Presented at : EPAC'98 Conference, Stockholm, June 1998

CERN-SL-98-049**OP**

Preparation of the SPS as LHC Injector

Collier, P.; Goddard, B.

Presented at : EPAC'98 Conference, Stockholm, June 1998

CERN-SL-98-050**BT**

Upgrading of the SPS injection kicker system for LHC requirements

Ducimetière, L. Schroder, G; Uythoven,
J; Vossenbergh, E; Han, Q

Presented at : EPAC'98 Conference, Stockholm, June 1998

CERN-SL-98-051	RF	The LEP2 Superconducting RF System
Tückmantel, J.		<i>Presented at : Invited talk at the Applied Superconductivity Conference, Palm Desert, CA, 13-18 September 1998</i>
CERN-SL-98-052	AP	The Beam-beam effect
Gareyte, J.		<i>Presented at : Lecture given at the Joint US-CERN-Japan-Russia , Accelerators School, Montreux'98</i>
CERN-SL-98-053	DI	SPS and LEP Status Report
Kissler, K.H.		<i>Presented at : HEACC'98, XVII International Conference on High Energy Accelerators, DUBNA, 7-12 September 1998</i>
CERN-SL-98-054	RF	Providing the Longitudinal Beam Parameters of the LHC Beam
Linnecar, T.		<i>Presented at : HEACC'98, XVII International Conference on High Energy Accelerators, DUBNA, Moscow Region, 7-12 September 1998</i>
CERN-SL-98-055	BT	The SICOPEX program - Version V.0 - Theory and User's Guide
Goddard, B. Gyr, M.		<i>Presented at :</i>

CERN-SL-98-056**AP**

Decoherence from Space-Charge

Vos, L.

*Presented at : HEACC'98, XVIIth International Conference on High Energy Accelerators, Dubna, Moscow Region, 7-12 September 1998***CERN-SL-98-057****CO**

Radiation Test Programme on Cots Components needed for the Large Hadron Collider at CERN

CERN-TIS-TE/IR-98-11

Rausch,R;Tavlet,M.

*Presented at : Conf. RADECS'98, RADiation Effects on Components and Systems, 14-15 September 98, Oxford, UK***CERN-SL-98-058****EA**

Synchrotron Radiation Power from Insertion Quadrupoles onto LEP Equipment

Butterworth, A.; Cavallari, G.; Jimenez, M.;
von Holtey, G.*Presented at :***CERN-SL-98-059****AP**

Proton Extraction from a High Energy Beam with Bent Crystals

J. Klem

*Presented at :***CERN-SL-98-060****RF**

A Recirculating Electron Accelerator (ELFE) using the LEP Super-Conducting RF Cavities

Geschonke, G.;Keil, E.

Presented at :

CERN-SL-98-061	BI	Image Sensor Technology for Beam Instrumentation
Jung, R.		<i>Presented at : Tutorial given at BIW'98, 8th Beam Instrumentation Workshop SLAC, USA, 4-7 May 1998</i>
CERN-SL-98-062	BI	The Measurement of Chromaticity via a Head-Tail Phase Shift
Cocq, D.; Jones, O.R.; Schmickler, H.		<i>Presented at : BIW'98, 8th Beam Instrumentation Workshop SLAC, USA, 4-7 May 1998</i>
CERN-SL-98-063	BI	From Narrow to Wide Band Normalization for Orbit and Trajectory Measurements
Cocq, D.; Vismara, G.		<i>Presented at : BIW'98, 8th Beam Instrumentation Workshop SLAC, USA, 4-7 May 1998</i>
CERN-SL-98-064	BI	A New Wide Band Time Normaliser Circuit for Bunch Position Measurements with High Bandwidth and Wide Dynamic Range
Cocq, D.; Schmickler, H.; Vismara, G.		<i>Presented at : HEACC'98, XVII International Conference on High Energy Accelerators, DUBNA, 7-12 September 1998</i>
CERN-SL-98-065	DI	Future Accelerators
Hübner, K.		<i>Presented at : Invited paper at XXIX International Conference on High Energy Physics (ICHEP'98), Vancouver, B.C. Canada, July 23-29, 1998</i>

CERN-SL-98-066	RF	The LEP Superconducting RF System : Characteristics and Operational Experience
Boussard, D.; Chiaveri, E.		<i>Presented at : NEA Workshop on Utilization and Reliability of High Power Accelerators, 13-15 October 1998, Mito, Japan</i>
CERN-SL-98-067	AP	Accelerators for the 21st century
Keil, E		<i>Presented at : Invited talk, ICAP'98, Monterey, CA, USA, 14-18 September 1998</i>
CERN-SL-98-068	AP	Experience with the Classic Library in MAD Version 9
Iselin, C		<i>Presented at : Invited paper for the International Computational Accelerator Physics Conference 1998, Monterey, CA, 14-18 Sept 1998</i>
CERN-SL-98-069	PO	High-Current Performance Evaluation of DCCT's
F. Bordry, G. Fernqvist, B. Halvarsson, J-C. Perréard, <u>J.G. Pett</u>		<i>Presented at : EP² Forum, ESRF - Grenoble, France, 21-22 October 1998</i>
CERN-SL-98-070	AP	Larger circular colliders
Keil, E		<i>Presented at :</i>

CERN-SL-98-071**PO**Novel Topology for (± 600 A, ± 12 V) four Quadrant ConverterF. Bordry, A. Dupaquier, P. Coulibaly* and
T. Meynard**Presented at :* EP² Forum, ESRF - Grenoble, France, 21-22 October
'98**Abstract****CERN-SL-98-072****AP**

Beam Dynamics Newsletter No. 18

Jowett, J.M

*Presented at :***CERN-SL-98-073****BI**Evaluation of the LEP centre-of-mass energy above the W-pair production
threshold

CERN-EP-98-191

LEP Energy Working Group

Presented at : Submitted to Eur. Phys. J.C.**CERN-SL-98-074****DI**

LEP Performance Limits Re-Visited

Brandt, D., Myers, S.

*Presented at :***CERN-SL-98-075****PO**

The New Servo-Spill Power Converter of the CERN SPS Machine

A. Beuret, G. Maire and G.L. Basile*

Presented at : EP² Forum, ESRF - Grenoble, France, 21-22 October
1998

CERN-SL-98-076**PO**

The Novel Control Loops of the Pulsed Power Converters for the CERN SPS Machine

E. Ozturk*, M. Royer

*Presented at : EP² Forum, ESRF - Grenoble, France, 21-22 October 1998***CERN-SL-98-077****PO**

Control and Interlock System for the SPS Main Power Converters

B. Denis, P. Malacarne, C. Mugnier, J. Varas*

Presented at : EP² Forum, ESRF - Grenoble, France, 21-22 October 1998